



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR527 Toxic Plants - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

3 Credit Hours. This course provides students with an opportunity to study several aspects related to many important poisonous, hallucinogenic, and narcotic plants. Topics include identifying poisonous plants, poisonous compounds, mechanisms of toxicity, clinical signs of poisoning, treatment, and prevention.

Teaching Method: Blended

Text Book

Title	Handbook of Poisonous and Injurious Plants
Author(s)	Lewis S. Nelson, Michael J. Balick
Edition	3rd Edition
Short Name	Ref # 1
Other Information	2020, Springer New York DOI: https://doi.org/10.1007/978-1-4939-8926-3

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	CRC World Dictionary of Medicinal and Poisonous Plants	Umberto Quattrocchi	1st Edition	2012, CRC Press
Ref # 4	Pharmacognosy, Phytochemistry, Medicinal Plants	Jean Bruneton	2nd Edition	1999
Ref # 3	Trease and Evans' Pharmacognosy	William Charles Evans	16th Edition	2009

Instructor

Name	Dr. Rana Qasaymeh
Office Location	P1 L-1
Office Hours	
Email	ranaqasaymeh@just.edu.jo

Class Schedule & Room

Section 2:
 Lecture Time: Sun, Tue : 12:30 - 13:30
 Room: M3304

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to hallucinogenic and narcotic plants	
Week 2	CNS Neurotransmitters and their role with hallucinogenic and narcotic materials	
Week 3	Psychoactive drugs from plants	
Week 4	NARCOTICS	
Week 5	Cannabis (Hemp)	
Week 6	LSD	

Week 7	AMANITA MUSCARIA	
Week 8	Introduction to poisonous plants	
Week 9	REMOVAL OF THE POISONOUS MATERIAL	
Week 10	Plants containing Oxalates	
Week 11	Plants containing Cardiac glycosides	
Week 12	Plants containing toxic di- and triterpenoids	
Week 13	Ricin toxicity, Poison Hemlock	
Week 14	Plants containing solanine alkaloids, Plants containing Pyrrolizidine alkaloid	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Illustrate the basic of scientific concepts and principles underlying toxic and hallucinogenic plants. [1PLO1.1] [1L7K1]	10%	
Analyze the chemical composition/toxic principles associated with toxic and hallucinogenic plants, exploring their active constituents and their mechanisms of action [1PLO1.1] [1L7K1]	15%	
Assess the potential health risks linked to exposure to toxic and hallucinogenic plants, the characteristic clinical symptoms caused by each plant, the precautions, basic management, first aid in case of poisoning, and to select the suitable antidote for treatment for plant toxicity [1PLO2.1] [1L7S1, 1L7S2]	45%	
Evaluate the pharmacological effects and potential therapeutic application of phytochemicals obtained from toxic and hallucinogenic plants, exploring their relevance in medical practice. [1PLO1.1] [1L7K1, 1L7S1, 1L7S2]	10%	
Engage in scientific discussions and collaborative projects focused on exploring toxic and hallucinogenic plants [1PLO3.6] [1L7C1, 1L7C3, 1L7C4]	20%	

Relationship to Program Student Outcomes (Out of 100%)															
PLO1.1	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1
35	45									20					

Relationship to NQF Outcomes (Out of 100%)					
L7K1	L7S1	L7S2	L7C1	L7C3	L7C4
28.33	25.83	25.83	6.67	6.67	6.67

Evaluation	
Assessment Tool	Weight
First Exam	20%
Second Exam	20%
Active learning: Presentations & assignments	20%
Final Exam	40%

Policy	
Communicating with Instructors	<ul style="list-style-type: none"> - Students should communicate through their official JUST emails. Communication through personal email accounts (yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided. - Students are required to check their emails and the E-learning page of the course regularly for announcements and notifications.
Exams	<ul style="list-style-type: none"> - All exams are closed books and notes. - The final exam is comprehensive (covers all the material). - The first, second, and midterm incomplete exams need approval from the departments heads. - The final incomplete exams need approval from the dean.

Cheating	<p>Prohibited; The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied.</p> <p>المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار مثلثباً بالغش فتوقع عليه العقوبات التالية مجتمعة:</p> <p>أ- اعتباره راسباً في ذلك الامتحان أو الاختبار.</p> <p>ب- الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل.</p> <p>ج- فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه.</p>
Attendance	<ul style="list-style-type: none"> - Attendance is mandatory and will be recorded regularly. - Excellent attendance is expected. - Students who miss more than 20% of the classes will be dropped from the course as per JUST policy. - If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Active learning and students participation	<ul style="list-style-type: none"> - Students are expected to actively participate in class discussions.
Classroom Etiquette	<ul style="list-style-type: none"> - Respect <ul style="list-style-type: none"> o Respect people, places, and things. o Raise your hand to speak. o Listen respectfully. o Food and drink are not permitted in class. o Do not engage in aside conversations. - Participation or Disruption: <ul style="list-style-type: none"> o Do not hesitate to ask questions at any time, especially if you are unsure of something. o Allow your classmates to participate in class discussions and refrain from taking advantage of all opportunities for active participation. - Cell Phones and Electronic Devices: <ul style="list-style-type: none"> o Texting is not permitted in class. o The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission. o Your phone should be turned off. If you must keep your phone on, you should set it to vibrate or silent mode and leave class if you receive an emergency call. o Except in emergencies, those using such devices must leave the classroom for the remainder of the class period. o Do not use your laptop in class for browsing the Internet or using social media while in class. - Missing a Class <ul style="list-style-type: none"> o Do not miss classes. It is not appropriate to ask the professor if you missed anything important if you miss class. Obviously, something of importance was missed, you missed a whole class! o Whenever you are absent from class, it is your responsibility to make up the work and to get notes, not your professors. o If you need to leave early, notify the instructor. - Be Punctual <ul style="list-style-type: none"> o Make sure you arrive to class on time.
Email Etiquette	<ul style="list-style-type: none"> - Type your email in the body of the email NOT in the subject line. - Provide a clear subject line. Keep it short and to the point, but not vague. Name, class, and what the email is specifically about should be in the subject line. - Body of the email: Your emails should always start with a formal greeting like you would in a letter, be brief (one screen length), check your spelling/grammar/punctuation, use a professional font (not decorative), and include a salutation aligned with your message (Thank you or Sincerely). - Avoid sending an email to your professor asking about grades or complaining about them. Schedule an appointment to meet in person to discuss areas for improvement if you have inquiries. - Consider the impression your tone will make in the email. It is recommended waiting 24 hours before sending an email or responding to an email if you are emotionally charged. - It is not appropriate to write in ALL CAPS. This conveys the impression that you are shouting at the recipient. - Make sure you read and reread your email before sending it. Make sure your emails are grammatically correct, have proper titles, and are properly spelled. - If you have multiple questions or the message runs long, you might consider revising the message or scheduling a face-to-face meeting. - You should double-check your ATTACHMENTS. Refer to your attachments within the body of your email. It is advisable to avoid attaching large files and to consider sending the document as a PDF. - Please allow sufficient time for a response. The sender and receiver should both allow sufficient time. As a rule of thumb, 24 work hours should be given. If sending emails after official work hours or during formal vacations, a delay in response is expected. Following that, if no response is received, you can follow up.